

Weekly SARS-CoV-2 Sequencing Summary for the State of Maine

July 30th, 2021

SUMMARY

Critical updates

- 4983 genomes sampled between March 10, 2020 and July 14, 2021 are included in the analysis
- 894 B.1.1.7 (alpha) Variant of Concern have been identified
- 5 B.1.351 (beta) Variant of Concern have been identified
- 75 B.1.617.2/AY.1/AY.2/AY.3 (delta) Variant of Concern have been identified (46 additional samples since 7/23 report)
- 107 P.1/P.1.1 (gamma) Variant of Concern have been identified

Notable Updates

- The delta variant represents 60.7% of all sequenced samples collected in July.

IMPORTANCE

- Variants of Concern have increased transmission
- Variants of Concern have increased severity of disease based on hospitalization and case fatality rates
- Variants of Concern have decreased susceptibility to therapeutic agents such as monoclonal antibodies
- Variants of Concern could evade natural or vaccine-induced immunity

CAVEATS and CONCERNS

- County information is missing in this analysis for ~50% of samples sequenced externally (e.g. CDC).
- Weekly biases exist due to uneven sampling across the state
- Need to reduce location bias by sequencing more samples from varying facilities and laboratories
- Turnaround times need to decrease to inform infection control practices
- Phylogenetic tree has no county metadata. Public release of county or aggregated-county metadata will aid regional analysis
- Phylogenetic tree has no PHI (an internal tree with PHI should be constructed)

REFERENCES

- <https://nextstrain.org/community/tewhey-lab/ncov-ME/latest>
<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/variant-surveillance/variant-info.html>
<https://covariants.org/>
<https://outbreak.info/situation-reports>
<https://nextstrain.org/>
<https://github.com/tewhey-lab/ncov-ME>

| Variant | WHO Label | Category | Cumulative Count | April 2021 | May 2021 | June 2021 | July 2021 |
|--------------------------------|-----------|----------|------------------|------------|----------|-----------|-----------|
| P.1* | Gamma | VOC | 107 | 5.2% | 4.1% | 2.6% | 1.6% |
| B.1.351 | Beta | VOC | 5 | 0.2% | 0.0% | 0.0% | 0.0% |
| B.1.1.7 | Alpha | VOC | 894 | 35.3% | 40.6% | 28.9% | 8.2% |
| B.1.617.2** | Delta | VOC | 75 | 0.1% | 0.3% | 3.7% | 60.7% |
| B.1.427 | Epsilon | VOI | 4 | 0.1% | 0.0% | 0.0% | 0.0% |
| B.1.429 | Epsilon | VOI | 135 | 2.0% | 1.1% | 0.4% | 0.0% |
| B.1.525 | Eta | VOI | 8 | 0.1% | 0.0% | 0.0% | 0.0% |
| B.1.526 | Iota | VOI | 1234 | 41.7% | 49.3% | 50.7% | 18.0% |
| B.1.617.1 | Kappa | VOI | 0 | 0.0% | 0.0% | 0.0% | 0.0% |
| B.1.617.3 | | VOI | 0 | 0.0% | 0.0% | 0.0% | 0.0% |
| P.2 | Zeta | VOI | 106 | 0.6% | 0.0% | 0.0% | 0.0% |
| Total VOI/VOC Sequenced | | | 2568 | 862 | 856 | 233 | 54 |
| Total Cases Sequenced | | | 4983 | 1010 | 896 | 270 | 61 |

Table 1: Proportion of cases sequenced classified as a variant of interest or concern by month.

P.1* includes P.1 and the subclade P.1.1

B.1.617.2** includes B.1.617.2 and the subclades AY.1, AY.2, AY.3 and AY.3.1

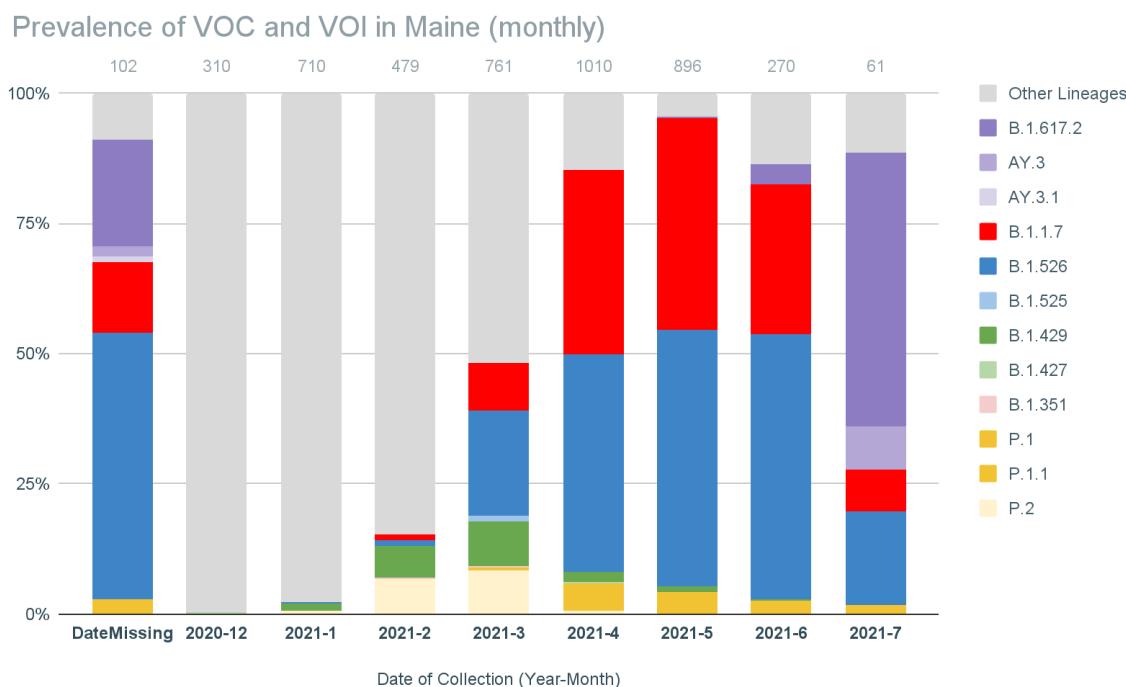


Figure 1: Proportion of samples typed as VOC and VOI by month. Samples represented as “DateMissing” include samples sequenced in the past 60 days without metadata.

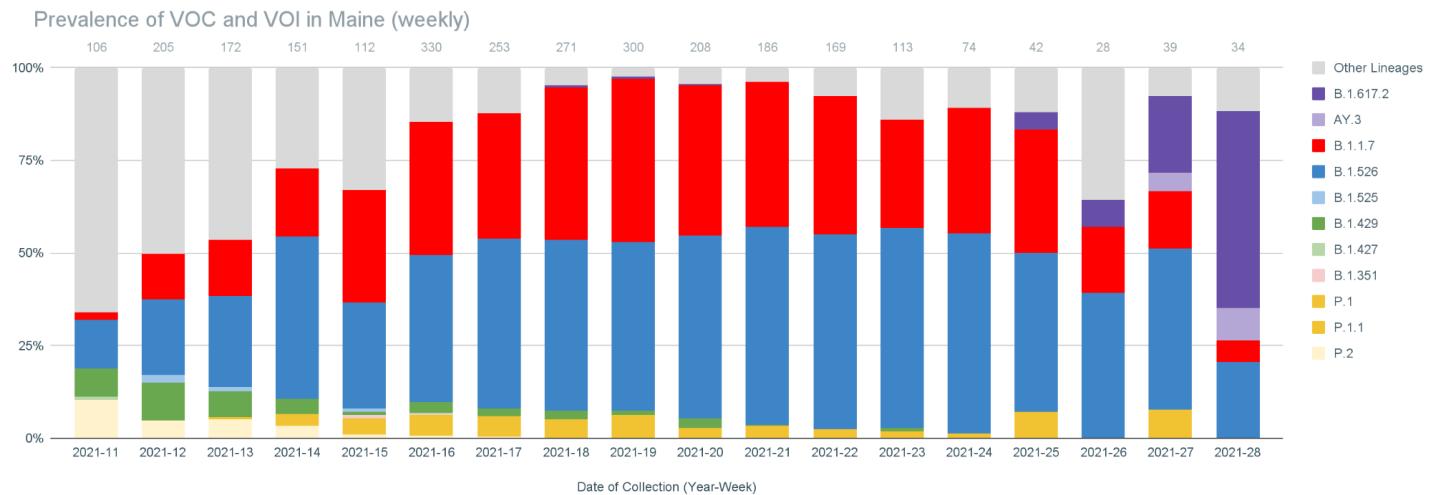


Figure 2: Proportion of samples typed as VOC and VOI by week.

| Mutation | Gene | Category | Cumulative Count | March 2021 | April 2021 | May 2021 | June 2021 |
|----------------|-------|--------------|------------------|------------|------------|----------|-----------|
| S:E484K | Spike | Substitution | 492 | 15.3% | 13.1% | 20.4% | 13.1% |
| S:L452R | Spike | Substitution | 665 | 14.0% | 19.0% | 25.9% | 65.6% |

Table 2: Proportion of cases sequenced with substitutions of therapeutic concern

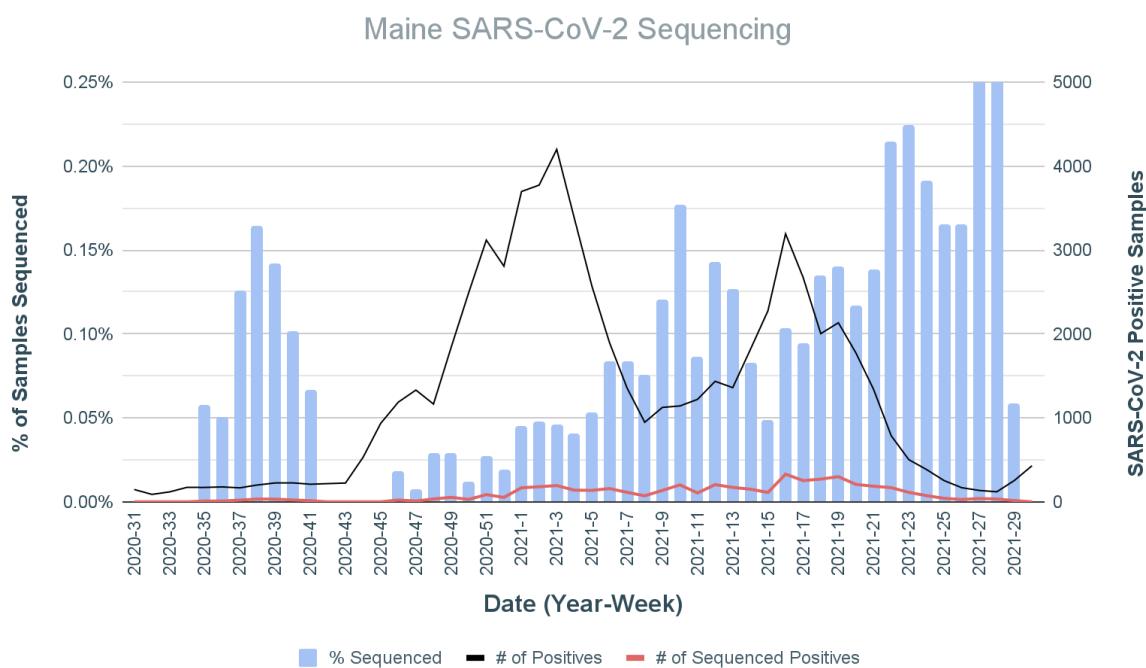


Figure 3: Proportion of COVID-19 positive samples sequenced.

| Sample Collection Date | JAX | HETL | CDC | Other |
|------------------------|-----|------|-----|-------|
| Missing Date | 129 | 0 | 0 | 129 |
| Pre-Sept 2020 | 119 | 0 | 0 | 119 |
| Sept 2020 | 113 | 0 | 0 | 113 |
| Oct 2020 | 19 | 0 | 0 | 19 |
| Nov 2020 | 98 | 0 | 0 | 98 |
| Dec 2020 | 296 | 0 | 12 | 308 |
| Jan 2021 | 602 | 0 | 88 | 692 |
| Feb 2021 | 340 | 13 | 115 | 476 |
| Mar 2021 | 514 | 16 | 212 | 768 |
| Apr 2021 | 569 | 83 | 341 | 993 |
| May 2021 | 529 | 59 | 298 | 892 |
| June 2021 | 225 | 0 | 39 | 266 |
| July 2021 | 58 | 0 | 1 | 59 |

Table 3: Total number of samples sequenced. Only Sequences passing quality metrics are included. CDC totals include samples from federal contracts (LabCorp, Helix, Broad) and 10 samples requested from HETL every 2 weeks via the NS3 surveillance program.

| | Total | 06/27/21 - | 07/04/21 - | 07/11/21 - | 07/18/21 - |
|---|-------|------------|------------|------------|------------|
| | | 07/03/21 | 07/10/21 | 07/17/21 | 07/24/21 |
| Total number of cases sequenced | 4983 | 39 | 34 | 15 | 0 |
| Total positive tests by molecular testing | 53907 | N/A | N/A | N/A | N/A |
| Total positive tests | 77122 | 136 | 120 | 255 | 430 |
| Percent of positives sequenced (molecular) | 9.24% | - | - | - | - |
| Percent of positives sequenced (total) | 6.46% | 28.68% | 28.33% | 5.88% | 0.00% |

Table 4: Total proportion of positive tests sequenced.

Supplemental Table 1: VOC/VOI proportion and total counts by county. Sequences obtained through GISAID (CDC, HETL, Other) are not included in the by-county breakdown.

| Variant | County | Cumulative % (total count) | April 2021 | May 2021 | June 2021 | July 2021 |
|---------|--------------------------------------|----------------------------|-------------|-------------|------------|------------|
| P.1* | ANDROSCOGGIN | 1.7% (12) | 2.2% (4) | 5.3% (7) | 6.3% (1) | 0% (0) |
| P.1* | AROOSTOOK | 7.6% (13) | 12.5% (3) | 25.0% (10) | 0% (0) | 0% (0) |
| P.1* | CUMBERLAND | 2.3% (19) | 7.0% (12) | 3.8% (4) | 9.5% (2) | 0% (0) |
| P.1* | FRANKLIN | 1.0% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | KENNEBEC | 1.9% (6) | 6.1% (3) | 2.5% (2) | 0% (0) | 20.0% (1) |
| P.1* | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | OXFORD | 1.8% (4) | 5.7% (3) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | PENOBCOT | 2.6% (13) | 13.0% (6) | 6.0% (7) | 0% (0) | 0% (0) |
| P.1* | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | WALDO | 2.9% (2) | 0% (0) | 0% (0) | 33.3% (2) | 0% (0) |
| P.1* | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.1* | YORK | 2.4% (12) | 7.1% (7) | 3.1% (3) | 4.7% (2) | 0% (0) |
| P.1* | Total (w/ county information) | 2.1% (82) | 5.0% (38) | 4.3% (33) | 2.9% (7) | 1.8% (1) |
| P.1* | Total | 2.1% (107) | 5.2% (53) | 4.1% (37) | 2.6% (7) | 1.6% (1) |
| B.1.351 | ANDROSCOGGIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | CUMBERLAND | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | LINCOLN | 3.0% (2) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | YORK | 0.2% (1) | 1.0% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | Total (w/ county information) | 0.1% (4) | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.351 | Total | 0.1% (5) | 0.2% (2) | 0% (0) | 0% (0) | 0% (0) |
| B.1.1.7 | ANDROSCOGGIN | 19.2% (135) | 43.8% (81) | 34.1% (45) | 25.0% (4) | 0% (0) |
| B.1.1.7 | AROOSTOOK | 10.6% (18) | 25.0% (6) | 22.5% (9) | 16.7% (2) | 100.0% (1) |
| B.1.1.7 | CUMBERLAND | 17.7% (147) | 48.3% (83) | 45.2% (47) | 23.8% (5) | 0% (0) |
| B.1.1.7 | FRANKLIN | 18.6% (18) | 75.0% (6) | 20.0% (3) | 62.5% (5) | 33.3% (1) |
| B.1.1.7 | HANCOCK | 15.1% (13) | 26.7% (4) | 46.7% (7) | 50.0% (1) | 0% (0) |
| B.1.1.7 | KENNEBEC | 14.0% (45) | 12.2% (6) | 33.3% (27) | 43.5% (10) | 0% (0) |
| B.1.1.7 | KNOX | 16.4% (12) | 33.3% (1) | 57.1% (8) | 75.0% (3) | 0% (0) |
| B.1.1.7 | LINCOLN | 58.2% (39) | 84.0% (21) | 77.3% (17) | 33.3% (1) | 0% (0) |
| B.1.1.7 | OXFORD | 19.1% (43) | 20.8% (11) | 50.0% (16) | 53.8% (7) | 28.6% (2) |
| B.1.1.7 | PENOBCOT | 16.1% (80) | 26.1% (12) | 45.3% (53) | 25.0% (13) | 0% (0) |
| B.1.1.7 | SAGADAHOC | 24.1% (14) | 25.0% (3) | 52.9% (9) | 50.0% (1) | 0% (0) |
| B.1.1.7 | SOMERSET/PISCATAQUIS | 17.5% (42) | 26.9% (14) | 37.3% (22) | 12.5% (3) | 50.0% (1) |
| B.1.1.7 | WALDO | 14.5% (10) | 33.3% (1) | 43.8% (7) | 33.3% (2) | 0% (0) |
| B.1.1.7 | WASHINGTON | 10.4% (7) | 0% (0) | 44.4% (4) | 22.2% (2) | 0% (0) |
| B.1.1.7 | YORK | 20.5% (101) | 35.4% (35) | 39.2% (38) | 25.6% (11) | 0% (0) |
| B.1.1.7 | Total (w/ county information) | 18.1% (724) | 37.7% (284) | 40.5% (312) | 29.4% (70) | 9.1% (5) |
| B.1.1.7 | Total | 17.9% (894) | 35.3% (357) | 40.6% (364) | 28.9% (78) | 8.2% (5) |

Supplemental Table 1 continued:

| Variant | County | Cumulative % (total count) | April 2021 | May 2021 | June 2021 | July 2021 |
|----------------|--------------------------------------|-------------------------------|------------------|------------------|-----------------|---------------|
| B.1.427 | ANDROSCOGGIN | 0.1% (1) | 0.5% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | CUMBERLAND | 0.2% (2) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | HANCOCK | 1.2% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | YORK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | Total (w/ county information) | 0.1% (4) | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.427 | Total | 0.1% (4) | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | ANDROSCOGGIN | 1.4% (10) | 0% (0) | 1.5% (2) | 0% (0) | 0% (0) |
| B.1.429 | AROOSTOOK | 6.5% (11) | 20.8% (5) | 15.0% (6) | 0% (0) | 0% (0) |
| B.1.429 | CUMBERLAND | 4.4% (37) | 2.3% (4) | 1.9% (2) | 0% (0) | 0% (0) |
| B.1.429 | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | KENNEBEC | 1.9% (6) | 2.0% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | OXFORD | 1.8% (4) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | PENOBCOT | 3.6% (18) | 4.3% (2) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | SAGADAHOC | 3.4% (2) | 0% (0) | 0% (0) | 50.0% (1) | 0% (0) |
| B.1.429 | SOMERSET/PISCATAQUIS | 0.4% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | WALDO | 1.4% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | WASHINGTON | 1.5% (1) | 14.3% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | YORK | 2.2% (11) | 3.0% (3) | 0% (0) | 0% (0) | 0% (0) |
| B.1.429 | Total (w/ county information) | 2.6% (102) | 2.1% (16) | 1.3% (10) | 0.4% (1) | 0% (0) |
| B.1.429 | Total | 2.7% (135) | 2.0% (20) | 1.1% (10) | 0.4% (1) | 0% (0) |
| B.1.525 | ANDROSCOGGIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | CUMBERLAND | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | FRANKLIN | 3.1% (3) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | OXFORD | 1.8% (4) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | YORK | 0.2% (1) | 1.0% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | Total (w/ county information) | 0.2% (8) | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) |
| B.1.525 | Total | 0.2% (8) | 0.1% (1) | 0% (0) | 0% (0) | 0% (0) |

Supplemental Table 1 continued:

| Variant | County | Cumulative % (total count) | April 2021 | May 2021 | June 2021 | July 2021 |
|------------------|--------------------------------------|-------------------------------|--------------------|--------------------|--------------------|-------------------|
| B.1.526 | ANDROSCOGGIN | 27.8% (195) | 47.0% (87) | 59.1% (78) | 56.3% (9) | 0% (0) |
| B.1.526 | AROOSTOOK | 4.7% (8) | 20.8% (5) | 2.5% (1) | 16.7% (2) | 0% (0) |
| B.1.526 | CUMBERLAND | 18.0% (150) | 29.1% (50) | 49.0% (51) | 47.6% (10) | 20.0% (1) |
| B.1.526 | FRANKLIN | 19.6% (19) | 25.0% (2) | 80.0% (12) | 37.5% (3) | 0% (0) |
| B.1.526 | HANCOCK | 19.8% (17) | 53.3% (8) | 46.7% (7) | 50.0% (1) | 100.0% (1) |
| B.1.526 | KENNEBEC | 33.6% (108) | 69.4% (34) | 60.5% (49) | 52.2% (12) | 40.0% (2) |
| B.1.526 | KNOX | 31.5% (23) | 33.3% (1) | 42.9% (6) | 25.0% (1) | 10.0% (1) |
| B.1.526 | LINCOLN | 16.4% (11) | 16.0% (4) | 22.7% (5) | 66.7% (2) | 0% (0) |
| B.1.526 | OXFORD | 32.4% (73) | 60.4% (32) | 46.9% (15) | 46.2% (6) | 57.1% (4) |
| B.1.526 | PENOBCOT | 22.4% (111) | 37.0% (17) | 47.9% (56) | 67.3% (35) | 33.3% (2) |
| B.1.526 | SAGADAHOC | 32.8% (19) | 75.0% (9) | 47.1% (8) | 0% (0) | 0% (0) |
| B.1.526 | SOMERSET/PISCATAQUIS | 32.9% (79) | 48.1% (25) | 59.3% (35) | 70.8% (17) | 0% (0) |
| B.1.526 | WALDO | 21.7% (15) | 66.7% (2) | 50.0% (8) | 33.3% (2) | 0% (0) |
| B.1.526 | WASHINGTON | 29.9% (20) | 42.9% (3) | 44.4% (4) | 77.8% (7) | 0% (0) |
| B.1.526 | YORK | 25.2% (124) | 29.3% (29) | 49.5% (48) | 27.9% (12) | 0% (0) |
| B.1.526 | Total (w/ county information) | 24.3% (972) | 40.9% (308) | 49.7% (383) | 50.0% (119) | 20.0% (11) |
| B.1.526 | Total | 24.8% (1234) | 41.7% (421) | 49.3% (442) | 50.7% (137) | 18.0% (11) |
| B.1.526.1 | ANDROSCOGGIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | CUMBERLAND | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | YORK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | Total (w/ county information) | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.526.1 | Total | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | ANDROSCOGGIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | CUMBERLAND | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | YORK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | Total (w/ county information) | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.1 | Total | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |

Supplemental Table 1 continued:

| Variant | County | Cumulative % (total count) | April 2021 | May 2021 | June 2021 | July 2021 |
|------------------|--------------------------------------|-------------------------------|-----------------|-----------------|------------------|-------------------|
| B.1.617.2 | ANDROSCOGGIN | 0.3% (2) | 0% (0) | 0% (0) | 12.5% (2) | 0% (0) |
| B.1.617.2 | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.2 | CUMBERLAND | 0.7% (6) | 0% (0) | 0% (0) | 19.0% (4) | 40.0% (2) |
| B.1.617.2 | FRANKLIN | 2.1% (2) | 0% (0) | 0% (0) | 0% (0) | 66.7% (2) |
| B.1.617.2 | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.2 | KENNEBEC | 0.3% (1) | 0% (0) | 0% (0) | 0% (0) | 20.0% (1) |
| B.1.617.2 | KNOX | 5.5% (4) | 0% (0) | 0% (0) | 0% (0) | 40.0% (4) |
| B.1.617.2 | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.2 | OXFORD | 1.3% (3) | 1.9% (1) | 3.1% (1) | 0% (0) | 14.3% (1) |
| B.1.617.2 | PENOBCOT | 1.0% (5) | 0% (0) | 0% (0) | 1.9% (1) | 66.7% (4) |
| B.1.617.2 | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.2 | SOMERSET/PISCATAQUIS | 0.4% (1) | 0% (0) | 0% (0) | 0% (0) | 50.0% (1) |
| B.1.617.2 | WALDO | 5.8% (4) | 0% (0) | 0% (0) | 0% (0) | 100.0% (4) |
| B.1.617.2 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| B.1.617.2 | YORK | 2.2% (11) | 0% (0) | 2.1% (2) | 4.7% (2) | 77.8% (7) |
| B.1.617.2 | Total (w/ county information) | 1.0% (39) | 0.1% (1) | 0.4% (3) | 3.8% (9) | 47.3% (26) |
| B.1.617.2 | Total | 1.3% (67) | 0.1% (1) | 0.3% (3) | 3.7% (10) | 52.5% (32) |
| AY.3* | ANDROSCOGGIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | AROOSTOOK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | CUMBERLAND | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | FRANKLIN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | HANCOCK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | KENNEBEC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | KNOX | 6.8% (5) | 0% (0) | 0% (0) | 0% (0) | 50.0% (5) |
| AY.3* | LINCOLN | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | PENOBCOT | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | SAGADAHOC | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | SOMERSET/PISCATAQUIS | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | WALDO | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | YORK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| AY.3* | Total (w/ county information) | 0.1% (5) | 0% (0) | 0% (0) | 0% (0) | 9.1% (5) |
| AY.3* | Total | 0.2% (8) | 0% (0) | 0% (0) | 0% (0) | 8.2% (5) |
| P.2 | ANDROSCOGGIN | 0.6% (4) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | AROOSTOOK | 2.9% (5) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | CUMBERLAND | 0.6% (5) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | FRANKLIN | 1.0% (1) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | HANCOCK | 18.6% (16) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | KENNEBEC | 0.6% (2) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | KNOX | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | LINCOLN | 6.0% (4) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | OXFORD | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | PENOBCOT | 3.0% (15) | 4.3% (2) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | SAGADAHOC | 3.4% (2) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | SOMERSET/PISCATAQUIS | 11.3% (27) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | WALDO | 4.3% (3) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | WASHINGTON | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | YORK | 0% (0) | 0% (0) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | Total (w/ county information) | 2.1% (84) | 0.3% (2) | 0% (0) | 0% (0) | 0% (0) |
| P.2 | Total | 2.1% (106) | 0.6% (6) | 0% (0) | 0% (0) | 0% (0) |

Supplemental Table 1 continued:

| Variant | County | Cumulative % (total count) | April 2021 | May 2021 | June 2021 | July 2021 |
|-------------------------|-------------------------------|-------------------------------|-------------|--------------|-------------|-------------|
| | ANDROSCOGGIN | 51.1% (359) | 93.5% (173) | 100.0% (132) | 100.0% (16) | 0% (0) |
| | AROOSTOOK | 32.4% (55) | 79.2% (19) | 65.0% (26) | 33.3% (4) | 100.0% (1) |
| | CUMBERLAND | 44.1% (367) | 86.6% (149) | 100.0% (104) | 100.0% (21) | 60.0% (3) |
| | FRANKLIN | 45.4% (44) | 100.0% (8) | 100.0% (15) | 100.0% (8) | 100.0% (3) |
| | HANCOCK | 54.7% (47) | 80.0% (12) | 93.3% (14) | 100.0% (2) | 100.0% (1) |
| | KENNEBEC | 52.3% (168) | 89.8% (44) | 96.3% (78) | 95.7% (22) | 80.0% (4) |
| | KNOX | 60.3% (44) | 66.7% (2) | 100.0% (14) | 100.0% (4) | 100.0% (10) |
| | LINCOLN | 83.6% (56) | 100.0% (25) | 100.0% (22) | 100.0% (3) | 0% (0) |
| | OXFORD | 58.2% (131) | 88.7% (47) | 100.0% (32) | 100.0% (13) | 100.0% (7) |
| | PENOBCOT | 48.8% (242) | 84.8% (39) | 99.1% (116) | 94.2% (49) | 100.0% (6) |
| | SAGADAHOC | 63.8% (37) | 100.0% (12) | 100.0% (17) | 100.0% (2) | 0% (0) |
| | SOMERSET/PISCATAQUIS | 62.5% (150) | 75.0% (39) | 96.6% (57) | 83.3% (20) | 100.0% (2) |
| | WALDO | 50.7% (35) | 100.0% (3) | 93.8% (15) | 100.0% (6) | 100.0% (4) |
| | WASHINGTON | 41.8% (28) | 57.1% (4) | 88.9% (8) | 100.0% (9) | 0% (0) |
| | YORK | 52.9% (261) | 76.8% (76) | 93.8% (91) | 62.8% (27) | 77.8% (7) |
| Total VOI/VOC Sequenced | Total (w/ county information) | 50.7% (2024) | 86.6% (652) | 96.2% (741) | 86.6% (206) | 87.3% (48) |
| Total VOI/VOC Sequenced | Total | 51.5% (2568) | 85.3% (862) | 95.5% (856) | 86.3% (233) | 88.5% (54) |
| | ANDROSCOGGIN | 702 | 185 | 132 | 16 | 2 |
| | AROOSTOOK | 170 | 24 | 40 | 12 | 1 |
| | CUMBERLAND | 832 | 172 | 104 | 21 | 5 |
| | FRANKLIN | 97 | 8 | 15 | 8 | 3 |
| | HANCOCK | 86 | 15 | 15 | 2 | 1 |
| | KENNEBEC | 321 | 49 | 81 | 23 | 5 |
| | KNOX | 73 | 3 | 14 | 4 | 10 |
| | LINCOLN | 67 | 25 | 22 | 3 | 0 |
| | OXFORD | 225 | 53 | 32 | 13 | 7 |
| | PENOBCOT | 496 | 46 | 117 | 52 | 6 |
| | SAGADAHOC | 58 | 12 | 17 | 2 | 0 |
| | SOMERSET/PISCATAQUIS | 240 | 52 | 59 | 24 | 2 |
| | WALDO | 69 | 3 | 16 | 6 | 4 |
| | WASHINGTON | 67 | 7 | 9 | 9 | 0 |
| | YORK | 493 | 99 | 97 | 43 | 9 |
| Total Cases Sequenced | Total (w/ county information) | 3996 | 753 | 770 | 238 | 55 |
| Total Cases Sequenced | Total | 4983 | 1010 | 896 | 270 | 61 |